



## **Abstract of the Disclosure**

A retractable device of sun shading suspensory umbrella mainly comprises an upper and lower support umbrella rods, ribs and hand cranking device. The diameter of the upper support umbrella rod is less than the lower support umbrella rod. The upper umbrella rod is located within the low portion of the retractable device. The hand cranking retractable device is equipped within lower portion of the lower support umbrella rod. The hand cranking retractable device is a worm with a handle, which connects with an active worm gear and a driven worm gear separately on both sides. The active worm gear and driven worm gear separately connects to entwined wire rope first rotating wheel and second through axletree. One end of the first wire rope is wired to first rotating wheel. The other end is securely mounted to lower umbrella tray. One end of the first wire rope is wired to second rotating wheel, the other end of said second wire rope is securely mounted to upper support umbrella rods. The advantages include high performance of self-locking by adopting the worm gear and worm structure, and avoiding the phenomena of disengage and retroflexion in stretching the sun shading umbrella.